

## CLIMATOLOGICAL DATA FOR NOVEMBER, 1912.

## DISTRICT NO. 1, NORTH ATLANTIC STATES.

Prof. WILFORD M. WILSON, District Editor.

## GENERAL SUMMARY.

Although conditions differed much from those usually experienced in the eleventh month, comparatively little comment seems to be required by the general features of the weather in the North Atlantic States during November, 1912. For the most part, the month was characterized by features similar to those of October, making the entire autumn somewhat distinguished for its agreeable weather, with temperatures averaging considerably above the normal, abundant sunshine, and no more rain in most sections than was actually needed. The following table summarizes the leading features of meteorological interest for the various sections of the district:

States, or parts of States, within district No. 1.	Temperature.				Precipitation.				Average number of—	
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest total.	Least total.	Rainy days.	Clear days.
New England.....	39.6	+2.2	76	5	3.59	- 0.37	6.34	0.95	8	13
New York.....	41.2	+3.1	76	0	3.37	+ 0.30	5.16	1.40	8	12
Pennsylvania.....	43.4	+3.2	78	7	2.07	- 0.07	4.83	1.02	7	10
New Jersey.....	45.3	+2.4	76	11	3.43	- 0.03	8.12	2.02	6	15
Maryland, Delaware, and District of Co-										
lumbia.....	44.7	+2.0	79	10	2.14	- 0.61	3.80	0.68	5	16
West Virginia.....	43.5	+1.6	77	12	1.54	- 0.36	2.86	0.82	4	12
Virginia.....	46.7	+1.7	81	15	2.36	+ 0.04	4.96	1.50	4	15

## TEMPERATURE.

Only seven stations in the entire district recorded temperatures averaging less than the November normal. Four of these are located near the Atlantic coast in Maryland and three near the coast in New England. Over most sections the temperature averaged about  $3^{\circ}$  higher than usual in November, and means for the month ranged from  $30.2^{\circ}$  at Van Buren, Me., to  $50.8^{\circ}$  at Eastville, Va. The warmest period extended from the 5th to the 12th or 13th and the maximum temperatures at practically all stations occurred near the beginning or the end of this period. Maximum temperatures of  $70^{\circ}$  or above were quite general as far north as central Connecticut, while in the northern New England States the maximum temperatures were below  $70^{\circ}$  at all stations and below  $60^{\circ}$  in some cases.

Brief cool periods occurred about the 2d-4th, 16th-19th, and 28th-29th, but on all other dates temperatures were but little below, if not above, the normal. The minimum temperatures for the month occurred chiefly within the second and third of these cool periods and ranged from  $30^{\circ}$  at Cape May City, N. J., to  $0^{\circ}$  at Indian

Lake and Morehouseville, N. Y. Probably no locality within the district escaped the occurrence of freezing weather until the end of the month. Killing frost occurred on the 3d or 4th at practically all places in the district that had escaped it until then.

## PRECIPITATION.

Precipitation was below normal at about 60 per cent of the stations, but the deficiency in nearly all cases was slight. The total amount for the month was not generally less than 2 inches, except in central Maryland and the upper sections of Virginia and West Virginia. In a few limited localities it was slightly less than 1 inch, but it is believed that notwithstanding the long rainless periods in some southern sections the rainfall was sufficient in all cases, except possibly in some parts of Virginia and Maryland, where the bulk of the month's precipitation came in the rainfall of one date, the 7th.

From central Pennsylvania northward there were considerable amounts of precipitation in each decade, so that it may be said that precipitation was generally well distributed through the month.

The principal storms were those of the 7th-8th and 24th-25th. The former gave instances of rains exceeding 2.50 inches within 24 hours at two stations in Maine, two in New York, one in Pennsylvania, three in New Jersey, and one in Maryland. The latter was in the form of snow in most sections and was unusually heavy over a considerable area extending from Pennsylvania into New England. At Oxford, N. Y., the snowfall of the 24th amounted to 17 inches. Another snowstorm occurred on the 28th and affected chiefly the southern part of the district, where the fall was as much as 6 inches in some localities. Very little snow remained on the ground until the end of the month, except in the mountainous sections of the northern part of the district.

## MISCELLANEOUS.

The principal rivers remained at low to moderate stages throughout the month, though a very noticeable swell in the streams followed the heavy rains of the 7th and 8th.

The percentage of the possible sunshine at 12 representative stations averaged 54, which exceeds the percentage obtained last September and is considerably above the usual figure for November. The percentage of the possible sunshine was remarkably high in the southern and central parts of the district, being 63 at Philadelphia and Atlantic City and 67 at New York, but the relative amount of clear weather was less at the north, the sunshine percentage at Eastport, Me., being only 37. The average number of clear days for all stations in the district was not less than 13.

TABLE 1.—Climatological data for November, 1912. District No. 1, North Atlantic States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direc- tion.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.							
<i>Maine.</i>																					
Bar Harbor.....	Hancock.....	20	26	38.3	- 0.6	63	7	18	17	32	5.73	+ 0.94	2.00	0.5	8	14	4	12	sw.	William Miller.	
Cornish.....	York.....	778	57	39.2	+ 4.1	69	8†	14	19	35	3.82	- 0.40	1.42	1.5	6	12	9	9	w.	T. H. West.	
Eastport.....	Washington.....	53	40	38.8	+ 2.0	60	7	21	17	25	2.86	- 1.22	1.69	2.0	12	3	12	15	sw.	U. S. Weather Bureau.	
Fairfield.....	Somerset.....	90	27	37.6	+ 2.2	63	7	15	29†	32	2.59	- 0.23	0.95	2.2	6	14	5	11	sw.	E. F. Parker.	
Farmington.....	Franklin.....	450	15	34.2	+ 1.1	60	7†	14	29	32	4.62	+ 1.29	1.84	9.5	8	9	11	10	sw.	State Normal School.	
Gardiner.....	Kennebec.....	163	20	38.8	+ 2.1	64	12	15	29	32	4.64	+ 0.80	1.46	2.0	7	15	4	11	sw.	Samuel D. Soule.	
Greenville.....	Piscataquis.....	1,140	8	32.2	.....	58	6	10	17	26	4.17	+ 1.40	1.05	14.5	10	.....	.....	.....	sw.	U. S. Weather Bureau.	
Houlton.....	Aroostook.....	362	10	36.6	.....	65	7	14	30	26	0.95	- 1.10	0.40	9.0	4	22	3	5	s.	Bangor & Aroostook R. R.	
Lewiston.....	Androscoggin.....	185	33	37.6	+ 1.9	62	7†	20	17†	30	4.24	+ 0.27	1.65	2.2	8	11	9	10	nw.	Union Water Power Co.	
Madison.....	Somerset.....	257	9	34.4	.....	62	8	14	17	30	5.17	+ 2.26	2.34	5.5	7	16	0	14	nw.	William Jardine.	
Millinocket.....	Penobscot.....	386	9	33.5	.....	59	7†	14	17†	28	6.34	+ 3.00	2.97	12.6	11	8	4	18	nw.	F. C. Bowler.	
North Bridgton.....	Cumberland.....	450	19	38.6	+ 1.6	66	12	18	17	32	3.84	+ 0.33	1.70	8.5	6	12	10	8	ne.	G. E. Chadbourne.	
Orono.....	Penobscot.....	129	43	39.4	+ 5.2	62	8	17	31	29	2.92	- 0.95	1.38	T.	6	4	16	10	sw.	Agricultural Exp. Station.	
Patten.....	do.....	550	10	31.0d	.....	55d	5†	5d	19	29	4.51	.....	2.00	15.0	9d	24d	15d	sw.	Bangor & Aroostook R. R.		
Portland.....	Cumberland.....	99	41	39.4	+ 1.8	61	5	20	29	25	3.58	- 0.22	1.25	T.	8	11	9	10	sw.	U. S. Weather Bureau.	
Presque Isle.....	Aroostook.....	3	31.4	.....	54	6	13	29	20	2.78	.....	0.60	17.0	8	5	3	22	w.	S. L. Merriman.		
Rumford Falls.....	Oxford.....	505	19	35.2	+ 1.1	60	7	18	17	23	3.70	+ 0.37	1.46	10.9	8	16	8	8	nw.	Charles A. Mixer.	
Van Buren.....	Aroostook.....	510	7	30.2	.....	50	7	14	17	22	4.38	.....	2.02	14.5	13	7	7	16	w.	J. M. Thomas.	
Winslow.....	Kennebec.....	90	17	38.4	+ 4.0	65	21	8	22	47	3.52	+ 0.37	1.33	1.5	5	15	3	12	w.	Hollingsworth & Whitney Co.	
<i>New Hampshire.</i>																					
Alstead Center.....	Cheshire.....	1,120	8	37.0	+ 2.0	62	6	14	29	28	3.45	- 1.07	1.22	2.0	8	15	4	11	sw.	Frank Dewing.	
Benton.....	Grafton.....	3	35.1	.....	59	6	9	29	33	2.71	.....	1.47	9.0	7	14	3	13	nw.	State Sanatorium.		
Bethlehem.....	do.....	1,470	20	34.8	+ 2.2	60	7†	9	29	31	2.43	- 1.28	0.74	5.5	10	9	3	18	sw.	Benjamin Tucker.	
Concord.....	Merrimack.....	350	52	39.4	+ 2.6	68	12	17	4†	37	3.74	+ 0.35	1.23	T.	7	13	10	nw.	U. S. Weather Bureau.		
Durham.....	Stafford.....	88	17	38.6	- 0.4	66	12	16	18	31	2.30	- 2.18	1.05	4	19	3	8	nw.	Agricultural Exp. Station.		
Franklin.....	Merrimack.....	440	13	38.5	+ 2.7	69	6	14	4	49	4.12	+ 1.72	1.37	1.0	9	16	5	9	w.	Dr. C. P. Webster.	
Grafton.....	Grafton.....	863	26	35.5	+ 1.3	65	12	8	29	40	3.77	+ 0.15	1.60	3.0	7	15	4	11	nw.	P. R. Kimball.	
Hanover.....	do.....	603	78	37.4	+ 3.8	64	6	12	29	36	2.30	- 0.73	1.08	0.6	7	11	8	11	nw.	Dartmouth College.	
Keene.....	Cheshire.....	508	27	38.4	+ 1.7	68	12	12	29	39	3.12	- 0.80	1.73	0.5	8	12	7	11	nw.	Samuel Wadsworth.	
Nashua.....	Hillsboro.....	125	27	39.8	+ 1.6	68	7†	18	19	36	3.08	- 0.90	1.35	0.5	8	13	1	13	nw.	Jackson Co.	
Newton.....	Rockingham.....	24	39.6	.....	70	12	15	29	38	3.30	- 1.13	1.05	T.	4	13	10	7	nw.	W. C. Gale.		
Plymouth.....	Grafton.....	500	24	35.8	+ 3.1	63	12	13	4	34	3.54	- 0.38	1.53	1.5	8	14	4	12	w.	Hattie G. Trow.	
<i>Vermont.</i>																					
Bloomfield.....	Essex.....	5	33.7	.....	59	6†	6	29	34	2.93	.....	0.85	8.5	14	10	8	12	s.	Lyman Falls Power Co.		
Cavendish.....	Windsor.....	910	9	37.1a	.....	68a	12	11a	29	40	2.69	.....	0.87	T.	9	9b	9b	10b	w.	E. D. Kingsbury.	
Chelsea.....	Orange.....	840	17	34.4	+ 1.2	66	7	5	29	34	2.85	- 1.33	1.23	5.0	6	9	7	14	s.	W. F. Dewey.	
Manchester.....	Bennington.....	980	13	38.4	.....	64	6	13	29	39	2.69	.....	1.16	5.0	7	1	13	16	sw.	N. M. Canfield.	
Somerset.....	Windham.....	2,096	35.5	.....	63	6	11	19	34	3.62	.....	1.21	12.2	10	10	6	14	sw.	J. Albert Holmes.		
St. Johnsbury.....	Caledonia.....	711	19	35.5	+ 2.2	61	7	11	29	34	2.78	- 1.18	1.56	1.3	11	8	9	13	nw.	Fairbanks Museum.	
Woodstock.....	Windsor.....	700	20	37.2	+ 3.4	63	12	12	28†	42	3.14	- 0.37	1.97	2.0	5	5	7	18	.....	John S. Eaton.	
<i>Massachusetts.</i>																					
Amherst.....	Hampshire.....	222	23	40.6	+ 2.3	67	6	18	29	33	4.03	+ 0.18	1.80	T.	6	13	7	10	sw.	Agricultural Exp. Station.	
Blue Hill.....	Norfolk.....	640	28	42.1	+ 2.4	67	12	18	29	37	3.45	- 1.17	0.92	1.0	10	14	5	11	w.	Blue Hill Observatory.	
Boston.....	Suffolk.....	124	42	45.6	+ 4.4	70	12	24	29	34	2.61	- 1.49	1.06	0.3	7	14	4	13	w.	U. S. Weather Bureau.	
Chestnut Hill.....	do.....	124	32	43.1	+ 1.8	69	6	19	29	34	3.00	- 1.58	1.24	0.8	6	23	0	7	.....	Metropolitan Water Board.	
Clinton.....	Worcester.....	370	16	40.8	.....	67	7	20	28	33	4.26	.....	1.55	0.6	7	20	1	9	.....	Do.	
Concord.....	Middlesex.....	139	22	40.2	+ 2.0	69	12	14	29	39	3.73	+ 0.50	1.37	0.7	9	11	9	10	sw.	Fred A. Tower.	
Fall River.....	Bristol.....	200	46	44.2	+ 1.5	69	7	22	29	33	4.06	- 0.10	2.20	3.0	7	7	19	4	sw.	C. V. S. Remington.	
Fitchburg.....	Worcester.....	550	29	41.3	+ 2.9	67	12	19	29	31	3.12	- 1.27	1.20	T.	7	18	5	7	w.	Dr. A. P. Mason.	
Framingham.....	Middlesex.....	180	32	42.8	+ 2.1	68	12	19	29	36	3.54	- 0.71	1.72	0.5	6	13	4	11	sw.	Metropolitan Water Board.	
Hanover.....	Barnstable.....	31	21	45.6	+ 0.7	66	6	23	29	34	3.13	- 1.90	0.86	0.86	7	13	13	4	w.	C. F. Sleeper.	
Lawrence.....	Essex.....	51	28	40.6	+ 0.7	67	12	18	29	36	3.14	- 1.06	0.25	0.2	7	12	13	5	w.	Essex Co.	
Lowell.....	Middlesex.....	100	27	42.0	+ 2.5	66	7†	19	35	3.09	- 0.92	1.16	.....	6	10	10	10	sw.	Props. Locks and Canals.		
Middleboro.....	Plymouth.....	53	26	41.6	+ 1.3	71	12	11	29	39	4.42	- 0.16	2.03	3.0	7	10	10	10	w.	A. R. Gurney.	
Nantucket.....	Nantucket.....	15	26	47.2	+ 2.0	65	7	29	19	29	2.94	- 0.34	1.13	T.	10	12	8	10	w.	U. S. Weather Bureau.	
New Bedford.....	Bristol.....	88	100	.....	64	7†	9	29	45	3.42	.....	1.29	1.0	7	16	6	8	w.	City Engineer.		
Norfolk.....	Plymouth.....	244	9	38.4	.....	64	7†	9	29	45	3.42	.....	1.29	1.0	7	16	6	8	w.	Ruby H. Martyn.	
Plymouth.....	Plymouth.....	27	42.0	.....	74	13	17	29	35	3.70	.....	1.65	2.0	9	20	10	10	w.	Laura B. Knapp.		
Provincetown.....	Barnstable.....	46	25	45.3	+ 1.4	65	12	27	29	32	3.00	- 0.60	0.90	0	5	20	0	10	sw.	Gideon Bowley.	
Rockport.....	Essex.....	25	10	43.9	.....	69	12	23	29	35	3.90	.....	1.25	T.	8	11	10	9	nw.	C. F. P. Bearse.	
Rutland.....	Worcester.....	1,160	10	37.6	.....	64	12	16	28	32	4.32	.....	2.02	0.6	6	18	4	8	sw.	State Sanatorium.	
Turners Falls.....	Franklin.....	200	21	40.8	+ 3.6	66	7	20	19†	30	4.11	+ 1.05	0.94	T.	6	17	3	10			

TABLE 1.—Climatological data for November, 1912. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.			Highest.	Lowest.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.						
					Date.	Date.	Date.														
<b>New York.</b>																					
Addison.....	Steuben.....	1,000	22	42.6	+ 3.5	72	6	16	29	36	2.64	+ 0.73	0.83	6.5	11	15	5	10	sw.		
Albany.....	Albany.....	97	91	41.6	+ 3.2	66	13	21	29	29	2.08	- 0.72	1.02	T.	7	13	5	12	s.		
Alfred.....	Allegany.....	1,976	17	38.8	+ 3.2	67	6	13	28	34	3.00	+ 1.71	1.30	1.5					Eckley B. Cox, Jr.		
Amsterdam.....	Montgomery.....	277	8	39.0	-	68	6	13	29	37	3.73	-	1.85	5.0	7	17	2	11	Emery Elwood.		
Athens.....	Greene.....	90	10	42.4	+ 3.1	65	6	21	29	31	2.82	+ 0.97	1.38	0	4	14	10	6	E. C. Brooks.		
Ballston Lake.....	Saratoga.....	490	9	43.8	+ 2.6	70	13	19	29	31	2.86	-	0.71	3.2	8	12	2	13	George R. Schaeber.		
Bedford.....	Westchester.....	450	21	43.8	+ 2.6	70	13	19	29	33	4.11	+ 0.44	2.23	T.	6	13	11	6	Dr. L. Rosenberg.		
Beerston.....	Delaware.....	1,214	11	41.8	+ 4.7	66	1+	17	29	31	4.90	-	0.90	8.5	7	15	1	14	John Q. Barlow.		
Binghamton.....	Broome.....	875	21	41.4	+ 3.8	68	11	19	29	30	3.08	+ 0.81	1.40	13.0	8	11	16	w.	U. S. Weather Bureau.		
Bouckville.....	Madison.....	1,350	15	38.2	+ 3.9	68	1	11	29	32	3.94	+ 0.99	0.90	19.5	14	6	7	17	L. W. Griswold.		
Boyd's Corners.....	Putnam.....	560	30	40.8	+ 4.7	66	6	21	29	31	4.61	+ 0.99	0.71	1.25	1	15	6	9	Thomas Manning.		
Carmel.....	do.....	500	20	40.7	+ 1.1	68	12	18	29	31	4.25	+ 0.74	2.33	0	7	15	6	9	Do.		
Chatham.....	Columbia.....	470	11	41.8	+ 4.7	65	6	17	29	31	2.77	+ 0.88	0.67	T.	7	11	8	11	Morton R. Tank.		
Cooperstown.....	Otsego.....	1,250	58	38.4	+ 4.4	63	6	10	29	37	3.98	+ 0.99	1.68	4.5	11	15	6	9	Elizabeth C. Keesee.		
Corinth.....	Saratoga.....	542	10	42.4	+ 6.2	67	6	19	29	32	3.57	+ 0.45	2.10	6					A. M. Hollister.		
Cortland.....	Cortland.....	1,129	50	42.4	+ 6.2	67	6	19	29	32	3.57	+ 0.45	1.42	11.0	12	9	5	16	F. G. Baker.		
Cutchogue.....	Suffolk.....	32	13	45.5	+ 2.4	68	12	23	29	30	3.89	+ 1.21	1.85	4.0	6	16	6	8	William A. Fleet.		
De Ruyter.....	Madison.....	1,300	9	40.2	+ 4.8	76	6	13	29	30	3.96	+ 2.44	1.55	21.0	13	10	5	15	B. D. Crandall.		
Elmira.....	Chemung.....	863	29	42.8	+ 3.5	68	8	29	31	31	2.08	+ 0.10	0.70	5	6	9	15	Thurber A. Brown.			
Ephratah.....	Fulton.....	602	9	39.2	+ 2.9	67	1	16	29	30	3.96	+ 0.79	2.00	1.5	8	7	10	Victor Gennett.			
Glens Falls.....	Warren.....	340	21	39.2	+ 2.9	67	1	16	29	30	3.96	+ 0.79	1.08	6.0	9	13	Prof. C. L. Williams.				
Gloversville.....	Fulton.....	850	20	37.4	+ 2.7	65	6	13	29	33	3.89	+ 0.60	1.08	7	13	7	10	W. L. McLean.			
Greenfield Center.....	Saratoga.....	314	14	39.2	+ 3.4	65	12	13	29	30	2.86	+ 0.40	0.98	8	15	6	9	S. E. Darow.			
Greenwich.....	Washington.....	425	15	40.8	+ 4.7	66	6	12	28	31	2.62	+ 0.06	1.15	T.	6	15	8	7	Homer J. Whitcomb.		
Griffith Corners.....	Delaware.....	2,260	12	40.8	-	66	6	9	29	30	2.62	-	0.70	1.25	11	9	8	13	Harold O. Judd.		
Haskinville.....	Steuben.....	17	1	40.8	-	66	6	9	29	30	2.23	- 0.29	1.18	8.0	7			W. G. Collins.			
Homer.....	Cortland.....	1,096	21	40.8	-	66	6	9	29	30	2.23	- 0.29	1.18	8.0	7			Charles C. Mortimer.			
Hoosick Falls.....	Rensselaer.....	410	10	40.8	-	66	6	9	29	30	2.23	- 0.29	1.18	8.0	7			Sanford L. Cluett.			
Indian Lake.....	Hamilton.....	1,705	13	34.0	+ 1.4	62	6	9	29	30	3.57	+ 1.84	0.81	1.5	9			Lester Sevier, Jr.			
Jeffersonville.....	Sullivan.....	1,240	9	39.0	-	68	6	15	29	34	2.09	-	0.90	2.0	7	14	11	5	w.		
Liberty.....	do.....	2,300	30	37.0	+ 1.7	61	12	14	29	35	1.60	- 1.72	1.10	4.5	2	19	0	11	n.		
Little Falls.....	Herkimer.....	924	14	38.6	+ 3.4	66	6	15	29	32	2.57	- 0.18	1.05	6.0	8	11	7	12	Dr. H. M. King.		
Mohonk Lake.....	Ulster.....	1,245	16	42.8	+ 1.1	63	22	21	29	34	2.40	- 1.33	0.85	T.	3	15	8	7	O. J. Dempster.		
Morehouseville.....	Hamilton.....	1,697	4	34.2	-	62	6	9	29	30	5.07	-	2.63	10.8	11	9	8	w.			
Morrisville.....	Madison.....	1,325	0	38.8	-	64	6	15	29	31	-	-	0.81	1.5	9		Prof. I. M. Charlton.				
Mount McGregor.....	Saratoga.....	1,060	0	40.8	-	66	6	15	29	31	-	-	0.81	1.5	9		F. W. Tooker.				
Mount Hope.....	Westchester.....	290	15	40.4	+ 5.2	71	12	22	29	37	3.77	+ 0.80	1.15	2.0	5	9	14	w.			
Newark Valley.....	Tioga.....	825	25	40.8	+ 2.7	65	6	13	29	30	3.10	+ 0.70	1.24	9.0	9			Lyman D. Clinton.			
New Berlin.....	Chenango.....	1,090	5	39.0	-	68	6	15	29	30	3.55	-	1.44	11.0	11			Charles F. Sarle.			
New Lisbon.....	Otsego.....	1,234	22	36.9	+ 2.7	66	6	5	29	37	3.34	+ 0.82	1.13	8.0	11	8	19	G. A. Yates.			
New York City.....	New York.....	314	87	46.6	+ 2.6	71	12	27	29	30	2.21	- 1.23	1.09	0.8	6	12	10	5	w.		
North Creek.....	Warren.....	1,002	4	36.6	-	65	6	10	29	30	4.25	-	2.03	5.5	5	14	2	14	W. G. Kenwell.		
Northville.....	Fulton.....	742	10	40.8	-	66	6	13	29	30	3.84	-	1.98	4				P. C. Pickard.			
Oneonta.....	Otsego.....	1,112	18	41.2	+ 3.0	66	6	14	29	33	3.19	+ 0.53	1.30	3.0	9	13	3	14	H. W. Lee.		
Oxford.....	Chenango.....	916	47	39.7	+ 3.8	63	6	15	29	30	4.33	+ 1.55	1.68	19.2	9	6	11	13	J. P. Davis.		
Oyster Bay.....	Nassau.....	40	8	49.5	-	71	13	24	29	37	3.71	-	1.17	7.0	7	20	1	9	Prof. Thomas Colby.		
Port Jervis.....	Orange.....	470	28	41.6	+ 2.9	70	12	19	29	34	2.7	- 0.70	0.85	T.	7	14	10	6	Hon. W. H. Nearpass.		
Roslyn.....	Nassau.....	215	9	46.2	-	71	12	22	29	30	3.88	-	1.70	2.0	8	19	1	10	C. H. Hechler.		
Salisbury.....	Herkimer.....	1,526	15	35.8	+ 1.2	69	6	6	29	30	2.48	- 0.84	1.10	6.0	6	17	9	4	O. J. Dempster.		
Seardsdale.....	Suffolk.....	200	8	45.7	-	72	12	22	29	30	2.75	- 0.84	1.25	1.0	6	19	4	7	C. H. Wilmarth.		
Setauket.....	Setauket.....	40	27	46.8	+ 2.7	68	12	28	29	32	4.15	+ 0.30	2.12	1.2	6	17	5	8	Seah B. Strong.		
Sherburne.....	Chemango.....	5	1	40.8	-	66	6	13	29	30	4.00	-	0.80	0.90	11				E. B. Collins.		
Southampton.....	Suffolk.....	36	11	45.8	+ 1.0	70	12	22	29	30	3.05	+ 0.42	0.85	3.5	7	13	13	4	W. L. Jagger.		
Southeast Reservoir.....	Putnam.....	310	7	40.8	-	66	6	10	29	30	3.82	- 0.46	0.85	3.5					Thomas Manning.		
South Edmeston.....	Otsego.....	1,300	0	38.7	-	65	6	10	29	33	3.64	-	1.00	8.0	11	13	7	10	F. H. Bilderbeck.		
Spier Falls.....	Saratoga.....	400	11	37.4	-	66	12	14	28	32	4.86	-	2.37	1.0	8	6	20	4	George E. Fifield.		
Trenton Falls.....	Oneida.....	751	9	40.8	-	66	12	14	28	32	3.87	-	1.23	3.0	2				C. W. Young.		
Tribeshill.....	Montgomery.....	268	9	39.0	-	66	12	22	29	30	2.00	-	1.10	3.0	2				R. S. Marshall.		
Utica.....	Oneida.....	537	46	44.8	-	72	12	15	29	37	4.57	-	2.20	2.0	7	21	5	4	w.		
Wading River.....	Suffolk.....	112	6	44.8	-	72	12	15	29	37	4.57	-	2.20	2.0	7	21	5	4	W. E. Young.		
Wappingers Falls.....	Dutchess.....	110	22	43.2	+ 3.4	70	12	22	19	30	3.54	+ 0.27	1.12	T.	5	16	10	4	H. B. Fullerton.		
Warwick.....	Orange.....	538	18	40.8	-	73	12	15	29	30	2.34	-	1.92	T.	4	17	7	6	H. C. Townsend.		
Waverly.....	Tioga.....	824	30	41.0	+ 2.7	72	6	11	29	42	2.62	+ 0.26	0.89	7.2	9	6	9	15	John W. Sly.		
West Berne.....	Albany.....	943	16	38.6	+ 2.8	74	12	5	29	42	1.90	- 0.64	0.75	8.0	7	6	3	21	J. F. Shoemaker.		
West Point.....	Orange.....	167	63	45.8	+ 3.9	74	1	25	28	30	3.03	- 0.56	1.04	T.	4	9	17	4	W. J. Haverly.		

TABLE 1.—*Climatological data for November, 1912. District No. 1—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.		
<b>Pennsylvania—Contd.</b>																				
Selinsgrove.	Snyder	455	24	43.8	+ 2.2	68	12	21	29	38	3.76	+ 0.93	2.06	2.0	7	0	20	10	nw.	J. M. Boyer, C. E.
State College.	Center	1,191	24	43.0	+ 3.5	67	11	23	29	32	2.49	- 0.12	1.54	0.6	8	9	6	6	w.	Prof. Wm. F. Frear.
Towanda.	Bradford	754	17	42.1	+ 3.1	69	13	16	29	36	2.49	+ 0.35	1.00	7.3	12	12	12	18	sw.	Hiram E. Bull, C. E.
Wellsboro.	Tioga	1,327	35	40.7	+ 3.0	68	6	13	29	43	2.15	- 0.90	0.90	6.0	9	15	12	3	w.	O. L. White.
West Chester.	Chester	455	58	46.0	+ 3.3	72	12	25	29	27	4.08	+ 0.26	2.19	0.1	6	2	21	7	sw.	J. C. Green, D. D. S.
Williamsport.	Lycoming	530	22	45.0	+ 4.7	69	6	19	29	35	2.93	+ 0.65	1.09	2.0	9	15	4	11	nw.	Henry H. Guise.
<b>New Jersey.</b>																				
Atlantic City.	Atlantic	16	39	47.8	+ 2.3	75	12	22	29	26	2.86	- 0.37	1.82	4.0	4	14	6	10	nw.	U. S. Weather Bureau.
Bayonne.	Hudson	50	22	46.7	+ 3.7	70	12	25	29	24	4.20	+ 0.67	2.51	0.5	5	17	6	7	w.	Erskine R. Eadie.
Belvidere.	Warren	289	22	44.0	+ 2.8	74	12	21	29	34	2.91	- 0.58	0.90	5.0	5	16	8	6	-----	Samuel J. Hixson.
Bergen Point.	Hudson	37	15	46.6	+ 3.6	72	12	24*	29	36	3.42	+ 4.54	3.80	1.0	5	20	6	6	nw.	Dr. Wm. H. Mitchell.
Bridgeton.	Cumberland	30	31	46.4	+ 1.5	73	12	20	29	38	2.62	- 1.24	0.90	2.0	5	18	6	6	w.	Henry A. Jorden.
Burlington.	Burlington	12	26	47.7	+ 2.4	74	12	23	29	37	3.42	- 0.32	1.30	1.1	6	24	3	3	nw.	D. S. B. McCoy.
Cape May City.	Cape May	17	34	49.2	+ 1.8	72	12	30	28	25	3.74	- 0.48	1.76	4.5	4	12	13	5	sw.	U. S. Weather Bureau.
Charlotteburg.	Passaic	719	20	43.0	+ 2.5	70	12	16	4	37	4.65	+ 0.92	1.73	T.	5	19	6	5	nw.	George S. Briggs.
Clayton.	Gloucester	126	19	46.0	+ 2.6	72	12	17	29	39	3.60	- 0.87	3.25	3.0	5	18	5	7	w.	Wm. T. Farley.
Culvers Lake.	Sussex	848	11	41.8	+ 1.5	70	12	19	29	36	3.66	+ 0.84	1.36	T.	6	19	5	6	sw.	Brice E. Riker.
Dover.	Morris	600	28	41.8*	+ 1.5	70	12	19*	4	31	4.88	+ 1.25	1.70	0	5	3	18	9	nw.	William C. Harris.
Elizabeth.	Union	45	33	45.2	+ 1.6	73	12	20	29	32	4.11	+ 0.77	2.18	1.0	9	15	9	6	nw.	L. B. Bonnett.
Flemington.	Hunterdon	140	24	45.0	+ 2.2	74	12	23	4	33	3.15	- 0.20	1.03	T.	6	18	8	4	sw.	Hiram E. Deats.
Haddonfield.	Camden	75	25	45.8	+ 3.2	73	12	19	29	32	2.41	- 0.91	1.97	1.5	6	12	14	4	sw.	Charles F. Richardson.
Hammonton.	Atlantic	103	14	-----	-----	73	12	17	47	40	2.39	- 0.53	2.03	2.5	8	-----	Orville Bassett.			
Hightstown.	Mercer	119	20	44.5*	+ 0.9	72	12	18*	29	34	2.62	- 0.74	1.30	1.0	6	18	7	5	w.	Frank V. Jimison.
Highwood.	Bergen	90	25	44.7	+ 2.4	73	12	18	29	35	4.26	+ 0.63	2.78	1.3	6	14	8	8	sw.	Charles J. Bates.
Imaystown.	Monmouth	107	24	46.4*	+ 2.1	75*	13	19*	29	37	2.77	- 0.89	1.49	1.5	5	17	8	5	sw.	Dr. Fred. C. Price.
Indian Mills.	Burlington	76	23	45.2	+ 1.8	75	12	17	29	42	2.89	- 0.71	1.61	2.5	14	12	4	w.	James Armstrong.	
Jersey City.	Hudson	10	14	47.1	+ 3.5	72	12	26	29	32	3.29	- 0.11	1.50	1.0	7	13	10	7	nw.	Samuel K. Pearson, Jr.
Lakewood.	Ocean	54	10	45.4	-----	72	12	21	29	33	3.09	-----	2.07	1.8	5	-----	-----	-----	nw.	Ralph Robertson.
Lambertville.	Hunterdon	95	25	45.2	+ 2.2	72	12	24	19*	35	3.50	- 0.11	3.35	0.5	6	22	3	5	w.	William R. Bowme.
Layton.	Sussex	550	13	41.4	+ 3.0	72	12	17	47	40	2.39	- 0.69	0.84	0	4	24	3	3	sw.	Warren C. Huns.
Little Falls.	Passaic	175	10	-----	-----	73	12	22	29	31	4.35	+ 0.83	1.95	0.2	6	-----	-----	-----	w.	A. Sweetman.
Long Branch.	Monmouth	30	5	46.2	-----	73	12	22	29	31	3.82	- 0.27	1.5	8	14	9	7	nw.	William D. Martin, Jr.	
Mahwah.	Bergen	312	10	-----	-----	73	12	22	29	36	5.01	+ 1.67	2.23	0	5	-----	-----	-----	nw.	Charles L. Barker.
Moorestown.	Burlington	75	50	44.4*	+ 1.4	71	12	22	29	26	2.95	- 0.47	1.12	1.5	6	15	11	4	sw.	George L. Gillingham.
Newark.	Essex	159	69	47.8	+ 4.9	72	12	26	29	38	4.22	+ 0.72	2.60	1.0	6	18	7	5	nw.	Prof. Wm. Wiener.
New Brunswick.	Middlesex	100	59	45.1	+ 1.5	71	12	20	29	38	4.00	+ 0.41	1.98	1.0	6	14	6	10	sw.	Harry Holcombe.
Newton.	Sussex	678	33	42.8	+ 3.0	70	12	21	29	38	4.04	- 0.40	1.14	T.	5	12	6	12	w.	F. Vernon Losee.
Northfield.	Atlantic	25	5	-----	-----	73	12	26	47	33	3.71	- 0.45	1.50	0.3	6	7	19	4	nw.	William L. Fleck.
Paterson.	Passaic	80	41	46.4	+ 3.1	73	12	26	29	41	3.60	- 0.66	1.80	T.	5	17	4	9	sw.	Heber A. Probert.
Phillipsburg.	Warren	363	22	43.4	+ 1.8	71	12	23	29	33	3.13	- 0.15	1.08	T.	6	17	4	9	sw.	D. W. Smith.
Plainfield.	Union	100	26	44.6	+ 2.6	72	12	19	29	34	3.52	- 0.07	1.78	0.6	7	6	14	10	sw.	John Neagle.
Pleasantville.	Atlantic	26	14	-----	-----	73	12	24	29	36	3.16	- 0.20	2.41	4.0	5	14	6	10	nw.	Lincoln Van Gilder.
Pompton Plains.	Morris	195	10	-----	-----	73	12	17	29	37	4.69	+ 1.20	1.80	T.	5	18	6	6	sw.	M. S. Taylor.
Somerville.	Somerset	60	29	45.2	+ 3.0	73	13	17	29	35	3.51	+ 0.12	1.39	0.3	5	18	6	6	sw.	A. A. Macdonald.
South Orange.	Essex	209	42	44.5	+ 2.9	70	12	22	29	36	3.80	+ 0.43	1.86	0.5	6	16	7	7	w.	Dr. Wm. J. Chandler.
Sussex.	Sussex	442	22	43.4	+ 2.9	74	12	19	30	32	3.00	- 0.06	1.23	0	7	12	4	14	sw.	George Dymock.
Trenton.	Mercer	63	41	46.4	+ 1.0	74	12	22	29	35	3.73	- 0.08	1.80	1.0	6	17	9	4	sw.	James L. Bennett.
Tuckerton.	Ocean	23	18	44.7	+ 0.7	74	12	12	29	36	4.23	+ 0.77	2.47	4.0	5	11	13	6	nw.	Frank R. Austin.
Vineland.	Cumberland	63	41	45.8	+ 1.9	74	12	14	29	36	3.58	+ 0.28	1.89	3.0	7	16	11	3	nw.	Alfred Chalmers.
Woodbine.	Cape May	43	21	46.6	+ 2.6	76	12	12	29	34	2.80	- 0.35	2.25	3.0	3	-----	-----	-----	nw.	Prof. R. D. Maltby.
<b>West Virginia.</b>																				
Bayard.	Grant	2,500	10	40.0	+ 2.2	66	6†	12	4	42	2.86	+ 0.54	1.65	2.6	9	13	5	12	w.	Solomon Clark.
Burlington.	Mineral	875	17	44.2	+ 0.9	74	12	14	30	44	1.30	- 0.53	1.20	T.	2	11	18	1	nw.	J. W. Vandiver.
Franklin.	Pendleton	5	-----	-----	-----	67	11	16	29	37	1.44	-----	1.20	1.0	5	11	8	11	n.	Fred Calhoun.
Lost City.	Hardy	435	21	44.8	+ 2.1	75	12	22	4	45	1.81	- 0.28	1.50	0	4	20	7	3	w.	B. D. Hinegardner.
Martinsburg.	Hardy	900	15	44.0	+ 1.2	74	10	16	26	39	0.82	- 0.81	0.73	T.	2	13	15	2	sw.	G. W. Van Metre, C. E.
Romney.	Hampshire	824	16	-----	-----	74	12	21	29	37	1.04	- 0.21	1.60	T.	5	12	17	1	nw.	John C. Fisher.
Upper Tract.	Pendleton	1,230	14	45.2	+ 1.7	77	12	17	29	41	0.95	- 0.72	0.95	0	1	5	16	8	w.	John C. Linthicum.
<b>Maryland.</b>																				
Annapolis.	Anne Arundel	45	40	50.1	+ 3.4	76	12	26	29	32	1.67	- 1.51	1.20	-----	5	13	0	17	nw.	U. S. Naval Academy.
Baltimore.	Baltimore	115	42	48.6	+ 2.8	76	12	28	29	37	1.93	- 0.99	1.03	0.5	5	11	12	7	sw.	U. S. Weather Bureau.
Cambridge.	Cheltenham	25	14	48.3	+ 0.6	75	13	23	29	33	2.63	- 0.01	1.33	2.0	4	15*	7*	7*	nw.	T. E. Keenan.
Chestertown.	Prince Georges	230	12	47.6	+ 3.0	7														

TABLE 1.—Climatological data for November, 1912. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Maryland—Continued.</i>																				
Solomons.....	Calvert.....	20	21	50.0	+ 1.4	73	12†	29	29	26	1.67	- 0.52	0.86	3.0	4	7	14	9	nw.	Dr. W. H. Marsh.
State Sanatorium.....	Frederick.....	1,460	4	45.6	.....	71	13	24	29	25	2.57	.....	1.98	0.2	6	19	2	9	w.	Superintendent.
Sudlersville.....	Queen Annes.....	65	13	46.7	+ 0.8	74	12	23	29	36	2.17	- 0.38	1.47	0.5	6	2	9	s.	Henry L. Higman.	
Takoma Park.....	Montgomery.....	320	14	46.0	+ 1.3	75	13	24	29	37	1.30	- 0.79	0.88	0.9	5	2	24	4	.....	L. M. Mooers.
Towson.....	Baltimore.....	465	4	45.2*	.....	78*	21	24*	47†	40*	1.90	.....	1.19	0.2	5	12	15	2	nw.	C. W. E. Treadwell.
Van Bibber.....	Harford.....	100	15	43.7*	- 0.3	73*	12	22*	27†	35*	2.05	- 1.05	1.39	T.	4	19d	5d	2d	.....	W. Benj. Ford.
Westernport.....	Allegany.....	1,000	18	46.7	+ 4.7	77	11	19	29	42	1.31	- 0.50	1.14	0.2	4	19d	4d	3d	nw.	Prof. O. H. Bruce.
Westminster.....	Carroll.....	860	19	46.4*	+ 4.5	75*	13	20d	30	34d	2.01	- 1.35	1.00	.....	5	19d	4d	3d	nw.	Prof. G. F. Morelock.
Woodstock.....	Baltimore.....	392	38	46.6	+ 3.8	73	12	25	29	31	2.24	- 0.74	1.25	0.2	5	18	1	11	nw.	Rev. J. F. Dawson, S. J.
<i>Delaware.</i>																				
Delaware City.....	Newcastle.....	10	10	47.0	.....	74	12	27	29	29	2.47	.....	1.35	0.2	4	23	3	4	nw.	H. Morton Price.
Dover.....	Kent.....	40	24	48.1	+ 4.8	75	12†	21	29	33	1.98	- 1.42	1.15	2.0	4	18	4	8	w.	W. C. Justing.
Milford.....	do.....	20	28	47.3	+ 1.8	74	1	17	29	34	2.84	- 0.30	1.05	6.0	7	20	8	2	sw.	Chas. J. Holzmueler.
Millsboro.....	Sussex.....	20	20	48.4	+ 1.9	78	12	16	29	40	2.95	+ 0.28	2.24	3.5	3	22	4	4	sw.	Rev. L. W. Wells.
Seaford.....	do.....	40	21	47.0	+ 0.8	73	1†	14	29	35	2.41	- 0.23	1.05	6.0	6	21	5	4	s.	E. B. Brown.
Wilmington.....	Newcastle.....	86	1	48.7	.....	74	12	28	29	29	3.80	+ 0.70	1.87	0.5	5	24	4	2	sw.	A. J. Taylor.
<i>District of Columbia.</i>																				
Washington.....	Dist. of Columbia.....	112	42	46.9	+ 1.9	77	12	25	29	36	1.54	- 1.17	1.04	0.6	5	13	8	9	nw.	U. S. Weather Bureau.
<i>Virginia.</i>																				
Culpeper.....	Culpeper.....	450	4	44.6	.....	73	13	17	29	37	2.05	.....	1.67	T.	3	12	17	1	s.	Col. H. C. Burrows.
Dale Enterprise.....	Rockingham.....	1,350	33	44.4	+ 0.6	74	12	15	29	33	1.69	- 0.47	1.31	1.0	5	12	14	4	s.	Rev. L. J. Heatwole.
Eastville.....	Northampton.....	15	2	50.8	+ 0.9	79	1	25	28	31	2.70	- 0.16	1.80	0.5	5	17	9	4	nw.	T. B. Robertson.
Fredericksburg.....	Spotsylvania.....	100	23	48.2	+ 1.7	80	12	19	29	39	2.31	+ 0.03	1.71	1.0	5	21	6	3	nw.	S. G. Howison.
Lincoln.....	Loudoun.....	500	11	45.2	+ 1.0	74	12	20	29†	40	1.71	- 0.17	1.10	T.	4	17	11	2	nw.	Dr. George Roberts.
Mount Weather.....	do.....	1,726	8	43.5	+ 3.1	69	12	23	29	21	2.49	- 0.37	2.08	0.4	5	8	14	8	nw.	U. S. Weather Bureau.
Onancock.....	Accomac.....	20	1	49.4	.....	81	1	24	19	38	2.90	.....	1.77	4.0	4	21	4	5	nw.	S. F. Rogers.
Quantico.....	Prince William.....	16	15	45.6	+ 0.2	75	11†	19	29	37	1.96	- 0.18	1.80	1.0	3	23	2	5	nw.	R. F. & P. Ry.
Staunton.....	Augusta.....	1,380	20	46.3	+ 0.9	76	1	21	3	35	2.32	+ 0.18	1.25	1.0	6	9	16	5	sw.	Ernest Nethungel.
Warsaw.....	Richmond.....	160	20	49.2	+ 2.7	78	1†	17	29	36	4.96	+ 2.43	2.20	4.0	6	11	15	4	n.	C. H. Constable.
Winchester.....	Frederick.....	717	1	47.5	.....	74	12	23	3	32	1.50	.....	1.40	0.0	2	14	9	7	w.	Bently Kern.
Woodstock.....	Shenandoah.....	927	16	46.0	+ 2.3	76	11	18	29	41	1.68	- 2.1	1.40	T.	4	14	11	5	w.	Mrs. A. G. Artz.

\*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

\*\*Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for November, 1912. District No. 1, North Atlantic States.*

Stations.	Watershed.	Day of month.																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	
<i>Maine.</i>																																	
Ashland.....	St. John.....																																3.77
Bar Harbor.....	Coast.....	.95	.30	T.							T.	2.00																				5.73	
Cambridge.....	Kennebec.....	.25	.41	T.								20.2	13																		5.50		
Cornish.....	Saco.....	.94		T.								1.42	T.																		3.82		
Danforth.....	Penobscot.....	.40											1.00																			3.26	
Eastport.....	Coast.....	.32	.17										10.1	59																	2.86		
Eustis.....	Kennebec.....																																
Fairfield.....	do.....	.48											*	.95																		2.59	
Farmington.....	do.....	.42	.20	T.									*	1.84																	4.62		
Gardiner.....	do.....	.14	.62											01	1.46																4.64		
Greenville.....	do.....	.42											1.08	.83	T.																4.17		
Houlton.....	St. John.....																															0.95	
Howe Brook.....	Penobscot.....	.21												35	80	1.20	.40													3.96			
Lewiston.....	Androscoggin.....	.73		T.																											4.24		
Madison.....	Kennebec.....	.84																														5.17	
Millinocket.....	Penobscot.....	.69													.01	2.97	.25														6.34		
North Bridgton.....	Saco.....	.60																														3.84	
Orono.....	Penobscot.....	.47																														2.92	
Patten.....	do.....	.01																														4.51	
Portland.....	Coast.....	.56																														3.58	
Presque Isle.....	St. John.....	.36																														2.78	
Rumford Falls.....	Androscoggin.....	.53		T.																												3.70	
The Forks.....	Kennebec.....																																
Van Buren.....	St. John.....	.44																														4.38	
Winslow.....	Kennebec.....	.65														*	1.33															3.52	
<i>New Hampshire.</i>																																	
Alstead Center.....	Connecticut.....	.58	.01	T.																												3.45	
Benton.....	do.....	.37		T.																												2.71	
Bethlehem.....	do.....	.10																														2.43	
Brookline.....	Merrimack.....	.50																														3.85	
Concord.....	do.....	.51	T.																													3.74	
Durham.....	do.....	.64																														2.30	
Franklin.....	do.....	.79	.03																													4.12	
Grafton.....	do.....	.75																														3.77	
Hanover.....	Connecticut.....	.38		T.																												2.30	
Keene.....	do.....	.67																														3.12	
Nashua.....	Merrimack.....	.45																														3.08	
Newton.....	do.....	.57																														3.30	
Plymouth.....	do.....	.73	.10																													3.54	
<i>Vermont.</i>																																	
Bloomfield.....	Connecticut.....	.27	.20	.03																												2.93	
Cavendish.....	do.....	.51																														2.69	
Chelsea.....	do.....	.15																														2.85	
Manchester.....	Hudson.....	.20																														2.69	
St. Johnsbury.....	Connecticut.....	.20	T.																													3.62	
Vernon.....	do.....	.09	.07																													2.78	
Woodstock.....	do.....	.53																														3.18	
<i>Massachusetts.</i>																																	
Amherst.....	Connecticut.....	.48		T.																												4.03	
Ashland.....	Merrimack.....	.48																														3.32	
Bakers Bridge.....	do.....																															2.91	
Bedford.....	do.....	.55																														3.14	
Blu Hill.....	Coast.....	.64	.16																													3.45	
Boston.....	do.....	.62																														2.61	
Chestnut Hill.....	do.....	.56																														3.00	
Clinton.....	Merrimack.....	1.04																														4.26	
Concord.....	do.....	.53	.07																													3.73	
Fall River.....	Coast.....	1.72																														4.66	
Fitchburg.....	Merrimack.....	.43																														3.12	
Framingham.....	do.....	.53														*	1.72														3.54		
Haverhill.....	do.....	.28	.09																													2.74	
Hingham.....	Coast.....	.98																														3.68	
Hyannis.....	do.....	.86															*	.62														3.13	
Jefferson.....	Merrimack.....	.95																														4.19	
Lake Cochituate.....	do.....	.54																														3.24	
Lawrence.....	do.....	.62												*	1.25	T.															3.14		
Leominster.....	do.....	.51																														4.00	
Lowell.....	do.....	.67																														3.09	
Middleboro.....	Coast.....	1.43																														4.42	
Nantucket.....	do.....	.77	.20																													3.42	
New Bedford.....	do.....																																

TABLE 2.—*Daily precipitation for November, 1912. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for November, 1912. District No. 1—Continued.*

Stations.	Watershed.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
<i>Pennsylvania.</i>																																		
Altoona	Susquehanna	.30																																2.34
Ansonia	do	T.	T.	.14	T.																												2.16	
Austin	do	.35	T.	T.																													1.66	
Bethlehem	do	.32																															2.47	
Bloserville	do	.10																															2.35	
Browers Lock	Schuylkill	.08																															3.86	
Catawissa	Susquehanna	.18																															2.72	
Center Hall	Coast	.50																															2.90	
Coatesville																																	2.82	
Doylestown	Schuylkill	.57																															3.90	
Drifton	Susquehanna	.42	T.	T.																												3.32		
Emporium	do	.28	T.	T.																												1.78		
Ephrata	do	.24	T.	T.																												2.28		
Everett	Juniata	.12	T.	T.																												1.86		
Forks of Neshaminy	Delaware	.83																														3.86		
George School	do	.44	T.	T.																												2.91		
Gettysburg	Potomac	.26																														1.91		
Girardville	Susquehanna	.40																														3.49		
Gordon	do	.45	T.																													3.40		
Hamburg	Schuylkill																															3.34		
Hanover	Susquehanna	.20																														2.05		
Harrisburg	do	.15	T.	T.																												1.55		
Huntingdon	Juniata	.10																														1.85		
Hyndman	Potomac																															1.60		
Kennett Square	Coast	.75																														3.63		
Lancaster	Susquehanna	.14	T.																													2.04		
Lansdale	Schuylkill	.69																														3.89		
Lawrenceville	Susquehanna	.10	T.																													2.64		
Le Roy	do	.25	.01	T.																												3.14		
Lewisburg	do	.30	.01	T.																												3.17		
Lloyd	do	.23	.05	.02																												2.49		
Lock Haven	do	.19	T.																													2.55		
Marion	Potomac	.15																														2.01		
Mauch Chunk	Lehigh	.73																														4.19		
Mifflintown	Juniata	.16	T.																													2.18		
Milford	Delaware	.75	T.																													2.58		
Montrose	Susquehanna	.32	T.																													3.06		
Mountain House	Juniata	.12																														1.41		
Mount Gretna	Susquehanna	.50	T.																													2.87		
New Germantown	do																															4.27		
Ottsville	Delaware	.88																														4.21		
Philadelphia	do	.56	T.																													3.21		
Pocono Lake	do	.42																														1.02		
Point Pleasant	do	.83																														3.83		
Pottsville	Schuylkill	.53																														2.80		
Reading	do	.30	T.																													2.80		
Renovalo	Susquehanna	.12																														2.20		
Scranton	do	.29																														3.75		
Seisholtsville	Schuylkill	.47																														3.26		
Seinsgrove	Susquehanna	.30	.01																													3.76		
Shawmont	Schuylkill	.58																														4.83		
Shippensburg	Susquehanna	.16																														1.52		
Smiths Corners	Schuylkill	.82																														3.95		
Spring Mount	do	.64																														3.29		
State College	Susquehanna	.23	T.	T.																												2.49		
Stroudsburg	Delaware	.61																														3.34		
Towanda	Susquehanna	.17	.03	T.																												2.49		
Weikert	do	.35																														2.90		
Wellsboro	do	.12	T.																													2.15		
West Chester	Coast	.78																														4.08		
Wilkes-Barre	Susquehanna	.22																														2.73		
Williamsport	do	.13	T.																													2.93		
<i>New Jersey.</i>																																		
Atlantic City	Coast	.56																															2.86	
Bayonne	do	1.10</																																

TABLE 2.—*Daily precipitation for November, 1912. District No. 1—Continued.*

\* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.  
Precipitation is less than 0.01 inch rain or melted snow.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures for November, 1912. District No. 1, North Atlantic States.*

Date.	Maine.												Concord, N. H.	Massachusetts.								Provi- dence, R. I.	Connecticut.						
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle.		Rumford Falls.			Amherst.		Boston.		Middle- boro.		Nantucket.				Cream Hill.		Hartford.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.			
1....	54	34	43	26	55	23	59	36	39	22	43	30	59	31	62	34	65	44	64	33	63	44	65	37	56	40	64	38	
2....	56	31	46	28	60	35	56	31	48	32	45	32	47	29	45	32	52	33	64	39	58	42	51	33	42	30	48	33	
3....	33	27	30	23	53	22	36	26	35	18	33	24	34	23	39	21	39	30	41	22	42	35	38	26	36	20	39	28	
4....	45	27	43	20	47	20	48	25	43	19	43	20	52	17	51	20	53	29	49	14	51	26	32	21	51	26	46	22	
5....	54	45	51	25	55	33	61	40	50	32	46	30	60	35	64	40	65	47	62	39	61	51	64	48	54	40	65	43	
6....	55	44	58	33	59	30	58	42	54	36	52	31	66	32	67	34	69	50	66	38	63	51	65	48	62	40	65	48	
7....	60	52	57	44	61	47	58	51	52	36	60	39	66	54	66	56	70	60	67	54	65	55	68	56	61	45	68	56	
8....	57	38	57	36	62	42	58	39	52	36	59	40	64	39	62	39	67	43	65	48	63	46	63	41	48	38	65	43	
9....	43	36	41	30	50	34	50	37	50	30	42	32	49	32	43	31	54	40	54	30	54	43	53	36	52	33	52	41	
10....	37	31	32	25	55	30	44	32	40	22	38	32	44	31	48	28	48	35	45	30	45	40	47	32	45	32	48	36	
11....	44	31	41	29	48	28	48	36	42	22	48	33	54	32	58	30	62	40	61	24	59	40	64	34	61	34	64	37	
12....	54	37	48	32	55	34	58	39	41	33	55	34	68	36	65	40	70	48	71	38	63	51	69	48	69	46	70	50	
13....	38	34	40	28	56	29	46	35	35	29	39	33	48	36	57	42	52	44	62	45	55	48	60	45	67	46	59	43	
14....	40	35	32	27	55	30	36	33	32	27	36	32	39	35	43	36	47	38	50	41	57	50	47	38	60	53	46	40	
15....	42	33	30	24	51	31	41	32	32	24	38	29	42	32	46	33	51	36	50	37	50	41	49	36	53	30	48	37	
16....	33	24	28	21	49	26	35	28	28	22	32	24	34	26	41	26	40	33	43	29	42	35	40	31	40	24	39	32	
17....	39	21	26	10	40	17	36	24	27	2	32	18	43	21	43	24	43	30	42	16	49	33	42	28	39	21	44	27	
18....	36	28	29	23	40	28	37	28	28	22	34	29	35	27	37	24	39	31	39	25	41	33	37	28	35	20	37	30	
19....	34	27	34	21	35	23	37	23	30	22	36	26	43	22	44	20	47	26	45	13	50	31	46	23	41	18	46	25	
20....	44	32	42	27	48	23	53	32	35	22	47	28	54	26	57	30	58	40	59	28	57	44	58	39	49	33	57	36	
Mns..	44.6	33.1	38.8	25.6	50.3	28.5	46.0	32.7	39.4	24.4	41.6	28.7	48.6	30.1	49.8	31.4	53.0	38.3	52.6	30.7	52.9	41.5	51.9	36.0	48.2	31.7	51.7	36.5	

Date.	New Haven, Conn.	New York.												Pennsylvania.												Atlantic City, N. J.		
		Addison.		Albany.		Bingham- ton.		Indian Lake.		Little Falls.		New York.		Everett.		Harris- burg.		Philadel- phia.		Scranton.		State College.		Wellsboro.				
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1....	64	42	63	43	61	43	61	40	49	28	60	38	65	50	63	32	62	46	67	49	62	44	61	42	64	40	65	51
2....	51	32	49	29	44	31	40	27	53	22	44	24	50	35	47	34	46	38	50	39	44	28	43	32	50	29	51	38
3....	42	29	40	24	39	27	35	26	30	18	32	26	44	31	42	17	44	34	46	35	38	28	39	30	37	26	45	31
4....	51	26	56	22	50	27	52	29	47	13	51	24	52	35	55	25	52	30	54	35	55	27	49	24	51	20	55	34
5....	62	45	67	34	60	42	61	42	49	33	57	42	61	42	69	53	66	39	64	44	62	40	64	40	62	32	62	50
6....	64	45	72	41	64	44	67	49	62	27	66	43	66	50	68	34	65	43	68	49	63	46	66	40	68	39	62	57
7....	65	59	61	53	64	51	62	43	59	46	63	52	64	58	62	53	63	53	66	60	65	46	61	50	63	52	64	59
8....	61	46	55	38	51	40	51	40	55	33	55	34	62	47	58	49	56	46	60	48	53	42	56	33	55	37	60	49
9....	53	40	52	34	48	39	45	36	37	30	40	34	52	41	52	35	50	41	53	43	46	40	47	36	50	35	53	40
10....	50	36	57	31	47	35	50	36	40	23	44	34	53	39	53	35	53	41	55	41	55	37	51	35	54	30	55	38
11....	63	42	70	37	58	34	68	44	49	21	55	33	64	45	60	38	67	44	64	47	65	45	67	39	66	34	62	52
12....	72	49	70	41	66	46	65	51	56	41	58	48	71	53	73	40	71	48	74	49	67	49	64	56	66	45	75	53
13....	56	45	63	45	50	40	60	46	50	50	41	50	56	62	50	70	42	66	49	69	54	67	49	63	44	63	56	56
14....	49	42	60	36	50	40	56	37	45	34	58	36	57	46	66	41	56	43	57	44	57	39	56	37	55	39	61	42
15....	50	35	46	29	48	37	41	32	40	27	58	32	43	38	41	35	45	40	50	41	44	35	41	34	42	28	48	38
16....	40	33	57	31	38	30	34	30	30	20	33	26	44	35	40	30	46	37	48	38	36	30	42	22	45	29	51	35
17....	46	29	40	34	45	29	39	31	29	15	39	29	47	33	45	29	45	36	50	35	41	29	40	33	40	26	52	35
18....	39	30	38	28	37	28	33	29	30	20	32	20	40	33	40	35	42	33	43	36	36	30	39	32	39	28	43	31
19....	48	25	56	20	44	25	50	26	40	12	50	27	49	31	50	36	52	30	54	32	49	26	57	25	52	19	55	29
20....	59	36	62	29	55	32	56																					

TABLE 3.—*Maximum and minimum temperatures for November, 1912. District No. 1—Continued.*

Date.	New Jersey.								Martinsburg, W. Va. §§	Maryland.								Millsboro, Del.	Washington, D. C.	Virginia.									
	Bridgeton.		Philipsburg.		Sussex.		Trenton.			Baltimore.		Darling-ton.		Frederick.		Western-port.					Fredericksburg.		Staunton. §§		Woodstock.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.				
1....	69	42	64	44	64	37	68	45	67	41	66	48	63	44	63	39	67	38	75	42	66	47	70	46	76	44	71	39	
2....	60	40	47	31	61	36	62	39	47	36	48	39	60	37	52	35	48	35	71	44	48	35	65	40	46	38	72	36	
3....	48	28	45	26	41	22	49	27	46	32	48	36	45	29	48	31	57	30	49	33	46	30	49	31	49	21	54	25	
4....	57	26	54	24	52	22	56	27	55	22	56	32	63	25	55	22	55	21	60	25	55	27	57	24	56	25	59	23	
5....	56	38	64	34	63	34	67	35	68	23	65	43	65	35	68	36	73	31	70	40	66	40	70	36	67	39	70	31	
6....	72	42	60	29	67	38	60	39	69	39	66	46	64	40	71	38	72	39	75	48	70	44	72	42	62	43	65	38	
7....	65	56	63	55	64	53	65	55	61	50	64	59	63	53	65	56	64	55	70	66	66	57	67	58	62	56	63	54	
8....	64	47	57	42	63	44	65	47	60	44	59	49	63	44	60	45	66	42	67	50	61	48	65	43	61	40	68	38	
9....	53	41	50	35	48	39	53	40	49	42	53	45	50	36	53	41	57	34	54	42	54	43	60	40	48	43	57	42	
10....	67	36	54	36	54	36	57	35	56	38	54	40	54	34	54	38	69	37	58	38	56	40	58	32	60	31	62	32	
11....	66	42	65	40	65	39	66	42	73	38	68	44	64	40	72	38	77	37	74	45	74	41	76	41	73	50	76	36	
12....	75	41	71	41	74	46	74	43	75	40	76	49	73	45	75	43	74	39	78	43	77	43	80	42	74	49	75	39	
13....	71	41	65	46	63	46	73	45	65	49	69	50	65	41	65	44	72	47	74	42	72	45	76	51	70	52	73	44	
14....	64	44	54	41	56	39	58	47	54	46	62	44	62	47	61	45	62	42	71	49	59	43	69	52	53	44	65	41	
15....	51	35	48	34	47	32	52	34	45	39	49	41	48	34	48	39	43	35	52	37	46	40	52	40	41	37	48	39	
16....	50	37	41	30	41	35	49	37	49	37	50	40	46	34	48	35	55	34	51	34	48	32	51	34	52	24	57	34	
17....	52	27	46	27	47	26	48	29	45	32	49	36	47	28	47	29	44	38	54	26	48	29	51	26	56	36	49	27	
18....	43	33	40	27	40	34	45	34	47	35	46	37	43	36	47	38	50	37	45	32	47	30	50	30	53	30	52	25	
19....	58	24	49	24	47	22	54	25	59	25	58	34	55	25	55	26	67	27	59	22	61	28	62	24	60	31	59	26	
20....	65	36	61	32	61	29	64	36	61	27	63	43	61	39	62	40	68	29	65	38	65	40	66	39	60	47	63	35	
21....	70	32	65	32	65	39	68	33	67	32	71	44	67	35	68	34	73	33	72	32	70	34	69	30	68	33	71	30	
22....	62	37	61	40	59	44	63	40	67	35	68	48	65	41	66	43	65	43	67	41	64	42	68	37	65	47	67	31	
23....	58	32	54	30	53	30	59	32	54	33	56	41	56	33	56	31	58	30	55	36	59	33	61	34	55	30	55	28	
24....	52	39	45	35	43	37	54	35	45	33	48	34	50	35	46	40	45	31	53	38	48	34	51	39	44	33	47	36	
25....	45	33	40	32	43	32	44	34	42	32	46	33	44	29	43	32	37	31	49	31	46	32	54	27	46	30	47	31	
26....	49	29	43	32	42	34	47	34	45	33	48	34	46	28	45	31	49	33	51	27	47	32	51	27	47	28	49	26	
27....	50	26	42	28	44	26	48	28	44	28	48	34	45	27	45	28	46	27	51	23	49	29	62	24	44	27	46	21	
28....	38	27	37	28	35	28	37	31	38	28	42	33	39	29	40	31	38	30	44	27	40	32	43	31	36	27	39	30	
29....	44	20	44	23	40	21	43	22	49	23	47	28	43	23	45	22	57	19	42	16	45	25	46	19	47	22	49	18	
30....	55	29	49	27	45	19	53	27	53	26	55	35	61	28	53	21	58	32	55	24	54	28	59	27	55	34	57	22	
Mns.	57.6	35.3	53.0	33.8	52.9	34.0	57.0	35.8	55.3	34.4	56.6	40.6	55.7	35.1	55.9	35.7	58.9	34.5	60.4	36.4	56.9	36.9	61.0	35.5	56.2	36.4	59.5	32.6	

<sup>a, b, c, etc.</sup>, indicate respectively 1, 2, 3, etc., days missing from the record.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.